# APPROVED JURISDICTIONAL DETERMINATION FORM U.S. Army Corps of Engineers

# **SECTION I: BACKGROUND INFORMATION**

| A. REPORT COMPLETION DATE FOR | APPROVED JURISDICTIONAL D | DETERMINATION (JD | ): 03-Oct-2008 |
|-------------------------------|---------------------------|-------------------|----------------|
|-------------------------------|---------------------------|-------------------|----------------|

B. DISTRICT OFFICE, FILE NAME, AND NUMBER: Nashville District, LRN-2008-01320-JD1

#### C. PROJECT LOCATION AND BACKGROUND INFORMATION:

State: AL - Alabama
County/parish/borough: Madison
City: Huntsville
Lat:

Long:

Universal Transverse Mercator: []

Name of nearest waterbody:

Normal Branch
Name of nearest Traditional Navigable Water (TNW): Wheeler Lake
Name of watershed or Hydrologic Unit Code (HUC): 6030002

Check if map/diagram of review area and/or potential jurisdictional areas is/are available upon request.

Check if other sites (e.g., offsite mitigation sites, disposal sites, etc¿) are associated with the action and are recorded on a different JD form.

#### D. REVIEW PERFORMED FOR SITE EVALUATION:

03-Oct-2008

Office Determination Date:

Field Determination Date

(s):

# **SECTION II: SUMMARY OF FINDINGS**

| Δ  | RHA SECTION 1   | DETERMINATION OF   | JURISDICTION |
|----|-----------------|--------------------|--------------|
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There [] "navigable waters of the U.S." within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the review area.

Waters subject to the ebb and flow of the tide.

Waters are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce.

Explain:

#### B. CWA SECTION 404 DETERMINATION OF JURISDICTION.

There [] "waters of the U.S." within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area.

#### 1. Waters of the U.S.

# a. Indicate presence of waters of U.S. in review area:1

| Water Name    | Water Type(s) Present   |  |  |  |  |  |  |
|---------------|---|--|--|--|--|--|--|
|               |   |  |  |  |  |  |  |
| Normal Branch | Relatively Permanent Waters (RPWs) that flow directly or indirectly into TNWs |  |  |  |  |  |  |

# b. Identify (estimate) size of waters of the U.S. in the review area:

Area: (m²) Linear: (m)

# c. Limits (boundaries) of jurisdiction:

based on: []

OHWM Elevation: (if known)

# 2. Non-regulated waters/wetlands:3

Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional. Explain:

# **SECTION III: CWA ANALYSIS**

# A. TNWs AND WETLANDS ADJACENT TO TNWs

#### 1.TNW

Not Applicable.

# 2. Wetland Adjacent to TNW

# B. CHARACTERISTICS OF TRIBUTARY (THAT IS NOT A TNW) AND ITS ADJACENT WETLANDS (IF ANY):

# 1. Characteristics of non-TNWs that flow directly or indirectly into TNW

Watershed size: []
Drainage area: []

Average annual rainfall: inches Average annual snowfall: inches

# (ii) Physical Characteristics

# (a) Relationship with TNW:

Tributary flows directly into TNW.

Tributary flows through [] tributaries before entering TNW.

:Number of tributaries

Project waters are [] river miles from TNW.

Project waters are [] river miles from RPW.

Project Waters are [] aerial (straight) miles from TNW.

Project waters are [] aerial(straight) miles from RPW.

Project waters cross or serve as state boundaries.

Explain:

Identify flow route to TNW:5

# **Tributary Stream Order, if known:**

|   | Order | Tributary Name |
|---|-------|----------------|
| 2 | 2     | Normal Branch  |

# (b) General Tributary Characteristics:

# **Tributary is:**

| Tributary Name | Natural | Artificial | Explain | Manipulated | Explain     |
|----------------|---------|------------|---------|-------------|-------------|
| Normal Branch  | -       | -          | -       | X           | channelized |

# Tributary properties with respect to top of bank (estimate):

| Tributary Name | Width (ft) | Depth (ft) | Side Slopes |
|----------------|------------|------------|-------------|
| Normal Branch  | 20         | 5          | 3:1         |

# Primary tributary substrate composition:

| Tributary Name | Silt | Sands | Concrete | Cobble | Gravel | Muck | Bedrock | Vegetation | Other |
|----------------|------|-------|----------|--------|--------|------|---------|------------|-------|
| Normal Branch  | Х    | -     | -        | -      | Х      | -    | -       | -          | -     |

# Tributary (conditions, stability, presence, geometry, gradient):

| Tributary Name | Condition\Stability             | Run\Riffle\Pool Complexes      | Geometry            | Gradient (%) |
|----------------|---------------------------------|--------------------------------|---------------------|--------------|
| Normal Branch  | stable with slight bank erosion | yes, within channelized stream | Relatively straight | .53          |

# (c) Flow:

| Tributary Name | Provides for   | Events Per Year | Flow Regime | Duration & Volume                       |
|----------------|----------------|-----------------|-------------|---|
| Normal Branch  | Perennial flow | 20 (or greater) | -           | Flashy high flows due to urban location |

# **Surface Flow is:**

| Tributary Name | Surface Flow | Characteristics |
|----------------|--------------|-----------------|
| Normal Branch  | Confined     | -               |

# **Subsurface Flow:**

| Tributary Name | Subsurface Flow | Explain Findings | Dye (or other) Test |
|----------------|-----------------|------------------|---------------------|
| Normal Branch  | Unknown         | -                | -                   |

# **Tributary has:**

| Tributary Name | Bed & Banks | OHWM | Discontinuous<br>OHWM <sup>7</sup> | Explain |
|----------------|-------------|------|------------------------------------|---------|
| Normal Branch  | Χ           | X    | -                                  | -       |

# Tributaries with OHWM<sup>6</sup> - (as indicated above)

| Tributary Name   | OHWM | Clear | Litter | Changes<br>in Soil | Destruction<br>Vegetation | Shelving | Wrack Line | Matted\Absent<br>Vegetation | Sediment<br>Sorting | Leaf Litter | Scour | Sediment<br>Deposition | Flow Events | Water<br>Staining | Changes<br>Plant | Other |
|------------------|------|-------|--------|--------------------|---------------------------|----------|------------|-----------------------------|---------------------|-------------|-------|------------------------|-------------|-------------------|------------------|-------|
| Normal<br>Branch | Х    | Х     | -      | -                  | Х                         | -        | -          | Х                           | Х                   | Х           | Х     | Х                      | Х           | -                 | -                | -     |

# If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction:

# **High Tide Line indicated by:**

Not Applicable.

# Mean High Water Mark indicated by:

# (iii) Chemical Characteristics:

Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.).

|   | Tributary Name | Explain                                    | Identify specific pollutants, if known |
|---|----------------|--|--|
| N | ormal Branch   | water color clear, watershed mostly urban. | -                                      |

## (iv) Biological Characteristics. Channel supports:

| ` '            |                   |                     |                |                 |         |
|----------------|-------------------|---------------------|----------------|-----------------|---------|
| Tributary Name | Riparian Corridor | Characteristics     | Wetland Fringe | Characteristics | Habitat |
| Normal Branch  | X                 | narrow, scrub shrub | -              | -               | Х       |

#### Habitat for: (as indicated above)

| Tributary Name   | Habitat | Federally<br>Listed Species | Explain Findings | Fish\Spawn Areas | Explain Findings | Other Environmentally<br>Sensitive Species | Explain Findings | Aquatic\Wildlife<br>Diversity | Explain Findings              |
|------------------|---------|-----------------------------|------------------|------------------|------------------|--|------------------|-------------------------------|-------------------------------|
| Normal<br>Branch | X       | -                           | -                | Х                | small fish       | -  | -                | l X                           | aquatic<br>macroinvertebrates |

# 2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW

- (i) Physical Characteristics:
- (a) General Wetland Characteristics:

**Properties:** 

Not Applicable.

# (b) General Flow Relationship with Non-TNW:

Flow is:

Not Applicable.

#### Surface flow is:

Not Applicable.

# Subsurface flow:

Not Applicable.

# (c) Wetland Adjacency Determination with Non-TNW:

Not Applicable.

# (d) Proximity (Relationship) to TNW:

Not Applicable.

# (ii) Chemical Characteristics:

Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.).

# (iii) Biological Characteristics. Wetland supports:

Not Applicable.

3. Characteristics of all wetlands adjacent to the tributary (if any):

All wetlands being considered in the cumulative analysis:

Not Applicable.

Summarize overall biological, chemical and physical functions being performed:

Not Applicable.

#### C. SIGNIFICANT NEXUS DETERMINATION

A significant nexus analysis will assess the flow characteristics and functions of the tributary itself and the functions performed by any wetlands adjacent to the tributary to determine if they significantly affect the chemical, physical, and biological integrity of a TNW. For each of the following situations, a significant nexus exists if the tributary, in combination with all of its adjacent wetlands, has more than a speculative or insubstantial effect on the chemical, physical and/or biological integrity of a TNW. Considerations when evaluating significant nexus include, but are not limited to the volume, duration, and frequency of the flow of water in the tributary and its proximity to a TNW, and the functions performed by the tributary and all its adjacent wetlands. It is not appropriate to determine significant nexus based solely on any specific threshold of distance (e.g. between a tributary and its adjacent wetland or between a tributary and the TNW). Similarly, the fact an adjacent wetland lies within or outside of a floodplain is not solely determinative of significant nexus.

Significant Nexus: Not Applicable

# D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE:

# 1. TNWs and Adjacent Wetlands:

Not Applicable.

# 2. RPWs that flow directly or indirectly into TNWs:

| Wetland Name  | Flow      | Explain   |
|---------------|-----------|---|
|               |           |   |
| Normal Branch | PERENNIAL | large waterhsed, large channel, water in stream in September. |

# Provide estimates for jurisdictional waters in the review area:

| i iovide estilliat | riovide estimates for jurisdictional waters in the review area.               |                   |                  |  |  |  |  |
|--------------------|---|-------------------|------------------|--|--|--|--|
| Wetland Name       | Туре  | Size (Linear) (m) | Size (Area) (m²) |  |  |  |  |
| INIORMAL Branch    | Relatively Permanent Waters (RPWs) that flow directly or indirectly into TNWs | 152.4             | -                |  |  |  |  |
| Total:             |   | 152.4             | 0                |  |  |  |  |

# 3. Non-RPWs that flow directly or indirectly into TNWs:<sup>8</sup> Not Applicable.

Provide estimates for jurisdictional waters in the review area:

Not Applicable.

4. Wetlands directly abutting an RPW that flow directly or indirectly into TNWs.

Not Applicable.

Provide acreage estimates for jurisdictional wetlands in the review area:

Not Applicable.

5. Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs:

Not Applicable.

Provide acreage estimates for jurisdictional wetlands in the review area:

Not Applicable.

6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs:

Not Applicable.

Provide estimates for jurisdictional wetlands in the review area:

Not Applicable.

7. Impoundments of jurisdictional waters:9

Not Applicable.

E. ISOLATED [INTERSTATE OR INTRA-STATE] WATERS INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE. INCLUDING ANY SUCH WATERS:10

Not Applicable.

Identify water body and summarize rationale supporting determination:

Not Applicable.

Provide estimates for jurisdictional waters in the review area:

#### F. NON-JURISDICTIONAL WATERS. INCLUDING WETLANDS

If potential wetlands were assessed within the review area, these areas did not meet the criteria in the 1987 Corps of Engineers Wetland Delineation Manual and/or appropriate Regional Supplements:

Review area included isolated waters with no substantial nexus to interstate (or foreign) commerce:

Prior to the Jan 2001 Supreme Court decision in "SWANCC," the review area would have been regulated based soley on the "Migratory Bird Rule" (MBR):

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction (Explain):

Other (Explain):

Provide acreage estimates for non-jurisdictional waters in the review area, where the sole potential basis of jurisdiction is the MBR factors (ie., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional judgment:

Not Applicable.

Provide acreage estimates for non-jurisdictional waters in the review area, that do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction.

Not Applicable.

# **SECTION IV: DATA SOURCES.**

#### A. SUPPORTING DATA. Data reviewed for JD

(listed items shall be included in case file and, where checked and requested, appropriately reference below):

| Data Reviewed  | Source Label | Source Description                                      |
|--|--------------|---|
| Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant | -            | -   |
| Corps navigable waters study   | -            | Nashville District Public Notice #86-23, dated May 1986 |
| U.S. Geological Survey map(s).   | -            | 1:24,000 Meridianville, AL                              |
| USDA Natural Resources Conservation Service Soil Survey.                         | -            | -   |
| Photographs  | -            | -   |
| Aerial   | <u> </u> -   | -   |
| Other  | -            | -   |

#### **B. ADDITIONAL COMMENTS TO SUPPORT JD:**

- <sup>1</sup>-Boxes checked below shall be supported by completing the appropriate sections in Section III below.
- <sup>2</sup>-For purposes of this form, an RPW is defined as a tributary that is not a TNW and that typically flows year-round or has continuous flow at least "seasonally" (e.g., typically 3 months).
- <sup>3</sup>-Supporting documentation is presented in Section III.F.
- <sup>4</sup>-Note that the Instructional Guidebook contains additional information regarding swales, ditches, washes, and erosional features generally and in the arid West.
- <sup>5</sup>-Flow route can be described by identifying, e.g., tributary a, which flows through the review area, to flow into tributary b, which then flows into TNW.
- <sup>6</sup>-A natural or man-made discontinuity in the OHWM does not necessarily sever jurisdiction (e.g., where the stream temporarily flows underground, or where the OHWM has been removed by development or agricultural practices). Where there is a break in the OHWM that is unrelated to the waterbody's flow regime (e. g., flow over a rock outcrop or through a culvert), the agencies will look for indicators of flow above and below the break.
- <sup>7</sup>-Ibid.
- 8-See Footnote #3.
- <sup>9</sup> -To complete the analysis refer to the key in Section III.D.6 of the Instructional Guidebook.
- <sup>10</sup>-Prior to asserting or declining CWA jurisdiction based solely on this category, Corps Districts will elevate the action to Corps and EPA HQ for review consistent with the process described in the Corps/EPA Memorandum Regarding CWA Act Jurisdiction Following Rapanos.

# APPROVED JURISDICTIONAL DETERMINATION FORM U.S. Army Corps of Engineers

#### **SECTION I: BACKGROUND INFORMATION**

#### A. REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (JD): 01-Oct-2008

B. DISTRICT OFFICE, FILE NAME, AND NUMBER: Nashville District, LRN-2008-01610-JD1

#### C. PROJECT LOCATION AND BACKGROUND INFORMATION:

State:

TN Tennessee

County/parish/borough:
City:
Crossville
Lat:
35.86796

Long:
-84.90911

Universal Transverse Mercator: []

Name of nearest waterbody: Clear Branch
Name of nearest Traditional Navigable Water (TNW): Obed River
Name of watershed or Hydrologic Unit Code (HUC): 06010208

Check if map/diagram of review area and/or potential jurisdictional areas is/are available upon request.

Check if other sites (e.g., offsite mitigation sites, disposal sites, etc.) are associated with the action and are recorded on a different JD form.

#### D. REVIEW PERFORMED FOR SITE EVALUATION:

01-Oct-2008

Office Determination Date:

Field Determination Date

(s):

#### **SECTION II: SUMMARY OF FINDINGS**

#### A. RHA SECTION 10 DETERMINATION OF JURISDICTION

There [] "navigable waters of the U.S." within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the review area.

Waters subject to the ebb and flow of the tide.

Waters are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce.

Explain:

#### **B. CWA SECTION 404 DETERMINATION OF JURISDICTION.**

There [] "waters of the U.S." within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area.

#### 1. Waters of the U.S.

#### a. Indicate presence of waters of U.S. in review area:1

| Water Name                       | Water Type(s) Present |
|----------------------------------|-----------------------|
| LRN-2008-01610; Cumberland Trial | Uplands               |

| <li>b. Identify (estimate) size of waters of the U.S. in the review are</li> |
|--|
|--|

Area: (m²) Linear: (m)

# c. Limits (boundaries) of jurisdiction:

based on: []

OHWM Elevation: (if known)

#### 2. Non-regulated waters/wetlands:3

Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional. Explain:

#### **SECTION III: CWA ANALYSIS**

# A. TNWs AND WETLANDS ADJACENT TO TNWs

#### **1.TNW**

Not Applicable.

# 2. Wetland Adjacent to TNW

Not Applicable.

#### B. CHARACTERISTICS OF TRIBUTARY (THAT IS NOT A TNW) AND ITS ADJACENT WETLANDS (IF ANY):

#### 1. Characteristics of non-TNWs that flow directly or indirectly into TNW

#### (i) General Area Conditions:

Watershed size: []
Drainage area: []
Average annual rainfall: inches
Average annual snowfall: inches

#### (ii) Physical Characteristics

# (a) Relationship with TNW:

Tributary flows directly into TNW.

Tributary flows through [] tributaries before entering TNW.

:Number of tributaries

Project waters are [] river miles from TNW.

Project waters are [] river miles from RPW.

Project Waters are [ ] aerial (straight) miles from TNW.

Project waters are [] aerial(straight) miles from RPW.

Project waters cross or serve as state boundaries.

Explain:

Identify flow route to TNW:5

#### **Tributary Stream Order, if known:**

| ORM Printer Friendly JD Form   |
|--|
| (b) General Tributary Characteristics: Tributary is: Not Applicable.   |
| Tributary properties with respect to top of bank (estimate): Not Applicable.   |
| Primary tributary substrate composition:<br>Not Applicable.  |
| Tributary (conditions, stability, presence, geometry, gradient): Not Applicable.   |
| (c) Flow:<br>Not Applicable.   |
| Surface Flow is:<br>Not Applicable.  |
| Subsurface Flow:<br>Not Applicable.  |
| Tributary has: Not Applicable.   |
| If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction:  |
| High Tide Line indicated by: Not Applicable.   |
| Mean High Water Mark indicated by:<br>Not Applicable.  |
| (iii) Chemical Characteristics: Characterize tributary (e.g., water color is clear, discolored, oily film; water quality;general watershed characteristics, etc.). Not Applicable. |
| (iv) Biological Characteristics. Channel supports:<br>Not Applicable.  |
| 2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW   |
| (i) Physical Characteristics: (a) General Wetland Characteristics: Properties: Not Applicable.   |
| (b) General Flow Relationship with Non-TNW: Flow is: Not Applicable.   |
| Surface flow is:<br>Not Applicable.  |
|  |

# Subsurface flow:

Not Applicable.

# **(c) Wetland Adjacency Determination with Non-TNW:** Not Applicable.

# (d) Proximity (Relationship) to TNW: Not Applicable.

#### (ii) Chemical Characteristics:

Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.).

Not Applicable.

#### (iii) Biological Characteristics. Wetland supports:

Not Applicable.

#### 3. Characteristics of all wetlands adjacent to the tributary (if any):

All wetlands being considered in the cumulative analysis:

Not Applicable.

Summarize overall biological, chemical and physical functions being performed:

Not Applicable.

#### C. SIGNIFICANT NEXUS DETERMINATION

A significant nexus analysis will assess the flow characteristics and functions of the tributary itself and the functions performed by any wetlands adjacent to the tributary to determine if they significantly affect the chemical, physical, and biological integrity of a TNW. For each of the following situations, a significant nexus exists if the tributary, in combination with all of its adjacent wetlands, has more than a speculative or insubstantial effect on the chemical, physical and/or biological integrity of a TNW. Considerations when evaluating significant nexus include, but are not limited to the volume, duration, and frequency of the flow of water in the tributary and its proximity to a TNW, and the functions performed by the tributary and all its adjacent wetlands. It is not appropriate to determine significant nexus based solely on any specific threshold of distance (e.g. between a tributary and its adjacent wetland or between a tributary and the TNW). Similarly, the fact an adjacent wetland lies within or outside of a floodplain is not solely determinative of significant nexus.

Significant Nexus: Not Applicable

# D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE:

#### 1. TNWs and Adjacent Wetlands:

Not Applicable.

# 2. RPWs that flow directly or indirectly into TNWs:

Not Applicable.

Provide estimates for jurisdictional waters in the review area:

Not Applicable.

#### 3. Non-RPWs that flow directly or indirectly into TNWs:8

Not Applicable.

Provide estimates for jurisdictional waters in the review area:

Not Applicable.

#### 4. Wetlands directly abutting an RPW that flow directly or indirectly into TNWs.

Not Applicable.

Provide acreage estimates for jurisdictional wetlands in the review area:

Not Applicable.

# 5. Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs:

Not Applicable.

# Provide acreage estimates for jurisdictional wetlands in the review area:

# 6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs:

Not Applicable.

#### Provide estimates for jurisdictional wetlands in the review area:

Not Applicable.

#### 7. Impoundments of jurisdictional waters:9

Not Applicable.

# E. ISOLATED [INTERSTATE OR INTRA-STATE] WATERS INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE. INCLUDING ANY SUCH WATERS:10

Not Applicable.

#### Identify water body and summarize rationale supporting determination:

Not Applicable.

#### Provide estimates for jurisdictional waters in the review area:

Not Applicable.

#### F. NON-JURISDICTIONAL WATERS. INCLUDING WETLANDS

If potential wetlands were assessed within the review area, these areas did not meet the criteria in the 1987 Corps of Engineers Wetland Delineation Manual and/or appropriate Regional Supplements:

Review area included isolated waters with no substantial nexus to interstate (or foreign) commerce:

Prior to the Jan 2001 Supreme Court decision in "SWANCC," the review area would have been regulated based soley on the "Migratory Bird Rule" (MBR):

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction (Explain):

Other (Explain):

Work takes place entirely on uplands, and work does not require 404 review

Provide acreage estimates for non-jurisdictional waters in the review area, where the sole potential basis of jurisdiction is the MBR factors (ie., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional judgment:

Not Applicable.

Provide acreage estimates for non-jurisdictional waters in the review area, that do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction.

Not Applicable.

# **SECTION IV: DATA SOURCES.**

#### A. SUPPORTING DATA. Data reviewed for JD

(listed items shall be included in case file and, where checked and requested, appropriately reference below): Not Applicable.

#### **B. ADDITIONAL COMMENTS TO SUPPORT JD:**

- <sup>1</sup>-Boxes checked below shall be supported by completing the appropriate sections in Section III below.
- <sup>2</sup>-For purposes of this form, an RPW is defined as a tributary that is not a TNW and that typically flows year-round or has continuous flow at least "seasonally" (e.g., typically 3 months).
- <sup>3</sup>-Supporting documentation is presented in Section III.F.
- <sup>4</sup>-Note that the Instructional Guidebook contains additional information regarding swales, ditches, washes, and erosional features generally and in the arid West.
- <sup>5</sup>-Flow route can be described by identifying, e.g., tributary a, which flows through the review area, to flow into tributary b, which then flows into TNW.
- <sup>6</sup>-A natural or man-made discontinuity in the OHWM does not necessarily sever jurisdiction (e.g., where the stream temporarily flows underground, or where the OHWM has been removed by development or agricultural practices). Where there is a break in the OHWM that is unrelated to the waterbody's flow regime (e. g., flow over a rock outcrop or through a culvert), the agencies will look for indicators of flow above and below the break.
- <sup>7</sup>-Ibid.
- 8-See Footnote #3.
- <sup>9</sup> -To complete the analysis refer to the key in Section III.D.6 of the Instructional Guidebook.
- <sup>10</sup>-Prior to asserting or declining CWA jurisdiction based solely on this category, Corps Districts will elevate the action to Corps and EPA HQ for review consistent with the process described in the Corps/EPA Memorandum Regarding CWA Act Jurisdiction Following Rapanos.

# APPROVED JURISDICTIONAL DETERMINATION FORM U.S. Army Corps of Engineers

#### **SECTION I: BACKGROUND INFORMATION**

#### A. REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (JD): 02-Oct-2008

B. DISTRICT OFFICE, FILE NAME, AND NUMBER: Nashville District, LRN-2008-00945-JD1

#### C. PROJECT LOCATION AND BACKGROUND INFORMATION:

State: KY - Kentucky

County/parish/borough: Trigg
City: Cadiz

Lat: 36.77662650525571 Long: -87.96913532029462

Universal Transverse Mercator: []

Name of nearest waterbody: cumberland River
Name of nearest Traditional Navigable Water (TNW): Cumberland River

Name of watershed or Hydrologic Unit Code (HUC):

Check if map/diagram of review area and/or potential jurisdictional areas is/are available upon request.

Check if other sites (e.g., offsite mitigation sites, disposal sites, etc.) are associated with the action and are recorded on a different JD form.

#### D. REVIEW PERFORMED FOR SITE EVALUATION:

06-Aug-2008

✓ 31-Jul-2008

Field Determination Date(s):

Office Determination Date:

#### SECTION II: SUMMARY OF FINDINGS

#### A. RHA SECTION 10 DETERMINATION OF JURISDICTION

There [] "navigable waters of the U.S." within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the review area.

Waters subject to the ebb and flow of the tide.

Waters are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce.

Explain:

#### B. CWA SECTION 404 DETERMINATION OF JURISDICTION.

There [] "waters of the U.S." within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area

#### 1. Waters of the U.S.

#### a. Indicate presence of waters of U.S. in review area:1

| Water Name               | Water Type(s) Present   |
|--------------------------|---|
| un trib Cumberland River | Relatively Permanent Waters (RPWs) that flow directly or indirectly into TNWs |

#### b. Identify (estimate) size of waters of the U.S. in the review area:

Area: (m²) Linear: 300 (m)

#### c. Limits (boundaries) of jurisdiction:

based on:

Established by OHWM.

OHWM Elevation: (if known)

#### 2. Non-regulated waters/wetlands:<sup>3</sup>

Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional.

#### **SECTION III: CWA ANALYSIS**

#### A. TNWs AND WETLANDS ADJACENT TO TNWs

#### **1.TNW**

Not Applicable.

#### 2. Wetland Adjacent to TNW

Not Applicable.

#### B. CHARACTERISTICS OF TRIBUTARY (THAT IS NOT A TNW) AND ITS ADJACENT WETLANDS (IF ANY):

#### 1. Characteristics of non-TNWs that flow directly or indirectly into TNW

#### (i) General Area Conditions:

Watershed size:

Drainage area:

53 acres

Average annual rainfall: 49.24 inches

Average annual snowfall: inches

#### (ii) Physical Characteristics

#### (a) Relationship with TNW:

Tributary flows directly into TNW.

Tributary flows through [] tributaries before entering TNW.

:Number of tributaries

Project waters are 1 (or less) river miles from TNW.

Project waters are 1 (or less) river miles from RPW.

Project Waters are 1 (or less) aerial (straight) miles from TNW.

Project waters are 1 (or less) aerial(straight) miles from RPW.

Project waters cross or serve as state boundaries.

Explain:

Identify flow route to TNW:<sup>5</sup> this tributary flows directly into a TNW

Tributary Stream Order, if known:

| Order | Tributary Name           |
|-------|--------------------------|
|       | un trib Cumberland River |

# (b) General Tributary Characteristics:

Tributary is:

| Tributary Name           | Natural | Artificial | Explain | Manipulated |
|--------------------------|---------|------------|---------|-------------|
| un trib Cumberland River | -       | -          | -       | **          |

Tributary properties with respect to top of bank (estimate):

| Tributary Name           | Width (ft) | Depth (ft) | Side |
|--------------------------|------------|------------|------|
| un trib Cumberland River | -          | -          | -    |

Primary tributary substrate composition:

| Tributary Name           | Silt | Sands | Concrete | Cobble | Gravel | Muck | Bedrock | Vegetat |
|--------------------------|------|-------|----------|--------|--------|------|---------|---------|
| un trib Cumberland River | -    | -     | -        |        | -      | -    | _       | -       |

Tributary (conditions, stability, presence, geometry, gradient):

| Tributary Name           | Condition\Stability | Run\Riffle\Pool Complexes | Geometry |   |
|--------------------------|---------------------|---------------------------|----------|---|
| un trib Cumberland River | -                   | -                         | -        | - |

(c) Flow:

| Tributary Name           | Provides for | Events Per Year | Flow Regime | Duration |
|--------------------------|--------------|-----------------|-------------|----------|
| un trib Cumberland River | •            | _               | -           | -        |

Surface Flow is:

| Tributary Name           | Surface Flow | Characteris |
|--------------------------|--------------|-------------|
| un trib Cumberland River | -            | -           |

Subsurface Flow:

| Tributary Name           | Subsurface Flow | Explain Findings | Dye (or ot |
|--------------------------|-----------------|------------------|------------|
| un trib Cumberland River | -               | -                | -          |

Tributary has:

| Tributary Name           | Bed & Banks | онwм | Discontinuous<br>OHWM <sup>7</sup> | - |
|--------------------------|-------------|------|------------------------------------|---|
| un trib Cumberland River | -           | -    | -                                  | - |

If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction:

High Tide Line indicated by:

#### Mean High Water Mark indicated by:

Not Applicable.

#### (iii) Chemical Characteristics:

Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics

| Tributary Name           | Explain | Identify specific pollutants, if known |
|--------------------------|---------|--|
| un trib Cumberland River | -       | -                                      |

(iv) Biological Characteristics. Channel supports:

| Tributary Name           | Riparian Corridor | Characteristics | Wetland Fringe | Characteristics |
|--------------------------|-------------------|-----------------|----------------|-----------------|
| un trib Cumberland River | •                 | -               | -              | -               |

- 2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW
- (i) Physical Characteristics:
- (a) General Wetland Characteristics:

Properties:

Not Applicable.

(b) General Flow Relationship with Non-TNW:

Flow is:

Not Applicable.

#### Surface flow is:

Not Applicable.

#### Subsurface flow:

Not Applicable.

#### (c) Wetland Adjacency Determination with Non-TNW:

Not Applicable.

#### (d) Proximity (Relationship) to TNW:

Not Applicable.

#### (ii) Chemical Characteristics:

Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.).

Not Applicable.

# (iii) Biological Characteristics. Wetland supports:

Not Applicable.

#### 3. Characteristics of all wetlands adjacent to the tributary (if any):

All wetlands being considered in the cumulative analysis:

Not Applicable.

# Summarize overall biological, chemical and physical functions being performed:

#### C. SIGNIFICANT NEXUS DETERMINATION

A significant nexus analysis will assess the flow characteristics and functions of the tributary itself and the functions performed by any wetlands adjacent to the tributary to determine if they significantly affect the chemical, physical, and biological integrity of a TNW. For each of the following situations, a significant nexus exists if the tributary, in combination with all of its adjacent wetlands, has more than a speculative or insubstantial effect on the chemical, physical and/or biological integrity of a TNW. Considerations when evaluating significant nexus include, but are not limited to the volume, duration, and frequency of the flow of water in the tributary and its proximity to a TNW, and the functions performed by the tributary and all its adjacent wetlands. It is not appropriate to determine significant nexus based solely on any specific threshold of distance (e.g. between a tributary and its adjacent wetland or between a tributary and the TNW). Similarly, the fact an adjacent wetland lies within or outside of a floodplain is not solely determinative of significant nexus.

Findings for: un trib Cumberland River

# D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE:

1. TNWs and Adjacent Wetlands:

Not Applicable.

2. RPWs that flow directly or indirectly into TNWs:

Not Applicable.

Provide estimates for jurisdictional waters in the review area:

| Wetland Name             | Туре  | Size (Linear) (m) |
|--------------------------|---|-------------------|
| un trib Cumberland River | Relatively Permanent Waters (RPWs) that flow directly or indirectly into TNWs | 91.44             |
| Total:                   |   | 91.44             |

3. Non-RPWs that flow directly or indirectly into TNWs:<sup>8</sup> Not Applicable.

Provide estimates for jurisdictional waters in the review area: Not Applicable.

4. Wetlands directly abutting an RPW that flow directly or indirectly into TNWs. Not Applicable.

Provide acreage estimates for jurisdictional wetlands in the review area: Not Applicable.

5. Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs: Not Applicable.

Provide acreage estimates for jurisdictional wetlands in the review area: Not Applicable.

6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs: Not Applicable.

Provide estimates for jurisdictional wetlands in the review area:

| Not Applica | ble. |
|-------------|------|
|-------------|------|

# 7. Impoundments of jurisdictional waters:9

Not Applicable.

E. ISOLATED [INTERSTATE OR INTRA-STATE] WATERS INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING ANY SUCH WATERS:  $^{10}$ 

Not Applicable.

Identify water body and summarize rationale supporting determination: Not Applicable.

**Provide estimates for jurisdictional waters in the review area:** Not Applicable.

#### F. NON-JURISDICTIONAL WATERS. INCLUDING WETLANDS

If potential wetlands were assessed within the review area, these areas did not meet the criteria in the 1987 Corps of Engineers Wetland Delineation Manual and/or appropriate Regional Supplements:

Review area included isolated waters with no substantial nexus to interstate (or foreign) commerce:

Prior to the Jan 2001 Supreme Court decision in "SWANCC," the review area would have been regulated based soley on the "Migratory Bird Rule" (MBR):

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction (Explain):

Other (Explain):

Provide acreage estimates for non-jurisdictional waters in the review area, where the sole potential basis of jurisdiction is the MBR factors (ie., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional judgment:

Not Applicable.

Provide acreage estimates for non-jurisdictional waters in the review area, that do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction.

Not Applicable.

#### SECTION IV: DATA SOURCES.

#### A. SUPPORTING DATA. Data reviewed for JD

(listed items shall be included in case file and, where checked and requested, appropriately reference below):

| Data Reviewed | Source Label | Source Description |  |
|---------------|--------------|--------------------|--|
| Photographs   | -            | -                  |  |
| Aerial        | ORM          | -                  |  |

#### **B. ADDITIONAL COMMENTS TO SUPPORT JD:**

<sup>&</sup>lt;sup>1</sup>-Boxes checked below shall be supported by completing the appropriate sections in Section III below.

<sup>&</sup>lt;sup>2</sup>-For purposes of this form, an RPW is defined as a tributary that is not a TNW and that typically flows year-round or has continuous flow at least "seasonally" (e.g., typically 3 months).

<sup>&</sup>lt;sup>3</sup>-Supporting documentation is presented in Section III.F.

<sup>&</sup>lt;sup>4</sup>-Note that the Instructional Guidebook contains additional information regarding swales, ditches, washes, and erosional features generally and in the arid West.

<sup>&</sup>lt;sup>5</sup>-Flow route can be described by identifying, e.g., tributary a, which flows through the review area, to flow into tributary b, which then flows into TNW.

<sup>&</sup>lt;sup>6</sup>-A natural or man-made discontinuity in the OHWM does not necessarily sever jurisdiction (e.g., where the stream temporarily flows underground, or where the OHWM has been removed by development or agricultural practices). Where there is a break in the OHWM that is unrelated to the waterbody's flow regime (e.g., flow over a rock outcrop or through a culvert), the agencies will look for indicators of flow above and below the break.

<sup>7-</sup>Ibid.

<sup>8-</sup>See Footnote #3.

<sup>&</sup>lt;sup>9</sup> -To complete the analysis refer to the key in Section III.D.6 of the Instructional Guidebook.

<sup>&</sup>lt;sup>10</sup>-Prior to asserting or declining CWA jurisdiction based solely on this category, Corps Districts will elevate the action to Corps and EPA HQ for review consistent with the process described in the Corps/EPA Memorandum Regarding CWA Act Jurisdiction Following Rapanos.

# APPROVED JURISDICTIONAL DETERMINATION FORM U.S. Army Corps of Engineers

# **SECTION I: BACKGROUND INFORMATION**

| A. REPORT COMPLETION DATE FOR APPROVED JURIS | DICTIONAL DETERMINATION | (JD | ): 29-Se | p-2008 |
|--|-------------------------|-----|----------|--------|
|--|-------------------------|-----|----------|--------|

B. DISTRICT OFFICE, FILE NAME, AND NUMBER: Nashville District, LRN-2008-01603-JD1

#### C. PROJECT LOCATION AND BACKGROUND INFORMATION:

State : AL - Alabama
County/parish/borough: Madison

City: Lat: Long:

Universal Transverse Mercator: [1

Name of nearest waterbody: Limestone Creek
Name of nearest Traditional Navigable Water (TNW): Limestone Creek

Name of watershed or Hydrologic Unit Code (HUC): 6030002

Check if map/diagram of review area and/or potential jurisdictional areas is/are available upon request.

Check if other sites (e.g., offsite mitigation sites, disposal sites, etc¿) are associated with the action and are recorded on a different JD form.

#### D. REVIEW PERFORMED FOR SITE EVALUATION:

Office Determination Date: 29-Sep-2008

20-Feb-2008

Field Determination Date

30-Jul-2008

(s):

# **SECTION II: SUMMARY OF FINDINGS**

| Δ  | RHA SECTION 1     | DETERMINATION OF | ILIBISDICTION |
|----|-------------------|------------------|---------------|
| м. | . NITA SECTION II |                  | JUNISDIGHUN   |

There [] "navigable waters of the U.S." within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the review area.

Waters subject to the ebb and flow of the tide.

Waters are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce.

Explain:

#### B. CWA SECTION 404 DETERMINATION OF JURISDICTION.

There [] "waters of the U.S." within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area.

#### 1. Waters of the U.S.

# a. Indicate presence of waters of U.S. in review area:1

| an interest processes or matter of the |   |
|--|---|
| Water Name                             | Water Type(s) Present                               |
| UT of Limestone Creek                  | Non-RPWs that flow directly or indirectly into TNWs |

# b. Identify (estimate) size of waters of the U.S. in the review area:

Area: (m²) Linear: (m)

# c. Limits (boundaries) of jurisdiction:

based on: []

OHWM Elevation: (if known)

# 2. Non-regulated waters/wetlands:3

Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional. Explain:

# **SECTION III: CWA ANALYSIS**

#### A. TNWs AND WETLANDS ADJACENT TO TNWs

#### 1.TNW

Not Applicable.

# 2. Wetland Adjacent to TNW

# B. CHARACTERISTICS OF TRIBUTARY (THAT IS NOT A TNW) AND ITS ADJACENT WETLANDS (IF ANY):

# 1. Characteristics of non-TNWs that flow directly or indirectly into TNW

# (i) General Area Conditions:

100 Watershed size:

acres

100

Drainage area: acres

Average annual rainfall: 54 inches Average annual snowfall: 3 inches

# (ii) Physical Characteristics

# (a) Relationship with TNW:

Tributary flows directly into TNW.

Tributary flows through [] tributaries before entering TNW.

:Number of tributaries

Project waters are 1 (or less) river miles from TNW.

Project waters are 1 (or less) river miles from RPW.

Project Waters are 1 (or less) aerial (straight) miles from TNW.

Project waters are 1 (or less) aerial(straight) miles from RPW.

Project waters cross or serve as state boundaries.

Explain:

Identify flow route to TNW:5

Flows directly into Limestone Creek(TNW)

# **Tributary Stream Order. if known:**

| Order | Tributary Name        |
|-------|-----------------------|
| 1     | UT of Limestone Creek |

# (b) General Tributary Characteristics:

# Tributary is:

| Tributary Name        | Natural | Artificial | Explain | Manipulated | Explain                             |
|-----------------------|---------|------------|---------|-------------|-------------------------------------|
| UT of Limestone Creek | -       | -          | -       | Х           | Stream has recently been disturbed. |

Tributary properties with respect to top of bank (estimate):

| Tributary Name        | Width (ft) | Depth (ft) | Side Slopes |
|-----------------------|------------|------------|-------------|
| UT of Limestone Creek | 5          | 2          | 2:1         |

# Primary tributary substrate composition:

| Tributary Name        | Silt | Sands | Concrete | Cobble | Gravel | Muck | Bedrock | Vegetation | Other |
|-----------------------|------|-------|----------|--------|--------|------|---------|------------|-------|
| UT of Limestone Creek | Χ    | -     | -        | -      | -      | -    | -       | -          | -     |

# Tributary (conditions, stability, presence, geometry, gradient):

| Tributary Name        | Condition\Stability                  | Run\Riffle\Pool Complexes | Geometry            | Gradient (%) |
|-----------------------|--------------------------------------|---------------------------|---------------------|--------------|
| UT of Limestone Creek | unstable due to recent disturbances. | no                        | Relatively straight | 2.5          |

# (c) Flow:

| Tributary Name        | Provides for   | Events Per Year | Flow Regime            | Duration & Volume |
|-----------------------|----------------|-----------------|------------------------|-------------------|
| UT of Limestone Creek | Ephemeral flow | 20 (or greater) | following rain events. | flashy            |

# **Surface Flow is:**

| Tributary Name        | Surface Flow | Characteristics |
|-----------------------|--------------|-----------------|
| UT of Limestone Creek | Confined     | -               |

# **Subsurface Flow:**

| Tributary Name        | Subsurface Flow | Explain Findings | Dye (or other) Test |
|-----------------------|-----------------|------------------|---------------------|
| UT of Limestone Creek | Unknown         | -                | -                   |

# **Tributary has:**

| Tributary Name        | Bed & Banks | OHWM | Discontinuous<br>OHWM <sup>7</sup> | Explain |
|-----------------------|-------------|------|------------------------------------|---------|
| UT of Limestone Creek | X           | X    | -                                  | -       |

# Tributaries with OHWM<sup>6</sup> - (as indicated above)

| Tributary Name              | OHWM | Clear | Litter | Changes in Soil | Destruction Vegetation | Shelving | Wrack Line | Matted\Absent Vegetation | Sediment<br>Sorting | Leaf Litter | Scour | Sediment<br>Deposition | Flow Events | Water<br>Staining | Changes<br>Plant | Other |
|-----------------------------|------|-------|--------|-----------------|------------------------|----------|------------|--------------------------|---------------------|-------------|-------|------------------------|-------------|-------------------|------------------|-------|
| UT of<br>Limestone<br>Creek | Х    | Х     | -      | -               | -                      | -        | -          | Х                        | -                   | Х           | Х     | Х                      | Х           | -                 | -                | -     |

If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction:

# **High Tide Line indicated by:**

# Mean High Water Mark indicated by:

Not Applicable.

## (iii) Chemical Characteristics:

Characterize tributary (e.g., water color is clear, discolored, oily film; water quality;general watershed characteristics, etc.).

| Tributary Name        | Explain                                    | Identify specific pollutants, if known |
|-----------------------|--|--|
| UT of Limestone Creek | mixed forest, agricultural and residential | -                                      |

## (iv) Biological Characteristics. Channel supports:

| Tributary Name        | Riparian Corridor | Characteristics | Wetland Fringe | Characteristics | Habitat |
|-----------------------|-------------------|-----------------|----------------|-----------------|---------|
| UT of Limestone Creek | -                 | -               | -              | -               | -       |

## 2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW

- (i) Physical Characteristics:
- (a) General Wetland Characteristics:

**Properties:** 

Not Applicable.

#### (b) General Flow Relationship with Non-TNW:

Flow is:

Not Applicable.

#### Surface flow is:

Not Applicable.

#### Subsurface flow:

Not Applicable.

# (c) Wetland Adjacency Determination with Non-TNW:

Not Applicable.

# (d) Proximity (Relationship) to TNW:

Not Applicable.

# (ii) Chemical Characteristics:

Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.).

Not Applicable.

# (iii) Biological Characteristics. Wetland supports:

3. Characteristics of all wetlands adjacent to the tributary (if any):

All wetlands being considered in the cumulative analysis:

Not Applicable.

Summarize overall biological, chemical and physical functions being performed:

Not Applicable.

#### C. SIGNIFICANT NEXUS DETERMINATION

A significant nexus analysis will assess the flow characteristics and functions of the tributary itself and the functions performed by any wetlands adjacent to the tributary to determine if they significantly affect the chemical, physical, and biological integrity of a TNW. For each of the following situations, a significant nexus exists if the tributary, in combination with all of its adjacent wetlands, has more than a speculative or insubstantial effect on the chemical, physical and/or biological integrity of a TNW. Considerations when evaluating significant nexus include, but are not limited to the volume, duration, and frequency of the flow of water in the tributary and its proximity to a TNW, and the functions performed by the tributary and all its adjacent wetlands. It is not appropriate to determine significant nexus based solely on any specific threshold of distance (e.g. between a tributary and its adjacent wetland or between a tributary and the TNW). Similarly, the fact an adjacent wetland lies within or outside of a floodplain is not solely determinative of significant nexus.

Findings for: UT of Limestone Creek

Stream has well defined channel and flows directly into TNW on this property.

# D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE:

# 1. TNWs and Adjacent Wetlands:

Not Applicable.

# 2. RPWs that flow directly or indirectly into TNWs:

Not Applicable.

Provide estimates for jurisdictional waters in the review area:

Not Applicable.

3. Non-RPWs that flow directly or indirectly into TNWs:8

Not Applicable.

Provide estimates for jurisdictional waters in the review area:

| Tributary Name        | Туре  | Size (Linear) (m) | Size (Area) (m²) |
|-----------------------|---|-------------------|------------------|
| UT of Limestone Creek | Non-RPWs that flow directly or indirectly into TNWs | 883.92            | -                |
| Total:                |   | 883.92            | 0                |

**4. Wetlands directly abutting an RPW that flow directly or indirectly into TNWs.** Not Applicable.

Provide acreage estimates for jurisdictional wetlands in the review area: Not Applicable.

**5.** Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs: Not Applicable.

Provide acreage estimates for jurisdictional wetlands in the review area: Not Applicable.

**6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs:** Not Applicable.

**Provide estimates for jurisdictional wetlands in the review area:** Not Applicable.

**7.** Impoundments of jurisdictional waters:<sup>9</sup> Not Applicable.

E. ISOLATED [INTERSTATE OR INTRA-STATE] WATERS INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING ANY SUCH WATERS:<sup>10</sup> Not Applicable.

Identify water body and summarize rationale supporting determination: Not Applicable.

Provide estimates for jurisdictional waters in the review area: Not Applicable.

#### F. NON-JURISDICTIONAL WATERS. INCLUDING WETLANDS

If potential wetlands were assessed within the review area, these areas did not meet the criteria in the 1987 Corps of Engineers Wetland Delineation Manual and/or appropriate Regional Supplements:

Review area included isolated waters with no substantial nexus to interstate (or foreign) commerce:

Prior to the Jan 2001 Supreme Court decision in "SWANCC," the review area would have been regulated based soley on the "Migratory Bird Rule" (MBR):

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction (Explain):

Other (Explain):

Provide acreage estimates for non-jurisdictional waters in the review area, where the sole potential basis of jurisdiction is the MBR factors (ie., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional judgment:

Not Applicable.

Provide acreage estimates for non-jurisdictional waters in the review area, that do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction.

Not Applicable.

#### **SECTION IV: DATA SOURCES.**

#### A. SUPPORTING DATA. Data reviewed for JD

(listed items shall be included in case file and, where checked and requested, appropriately reference below):

| Data Reviewed                                 | Source Label | Source Description   |
|---|--------------|--|
| Maps, plans, plots or plat submitted by or on | -            | _  |
| behalf of the applicant/consultant            |              |  |
| Corps navigable waters study                  | -            | Nashville District Public Notice #86-23, dated 8 May 1986. |
| U.S. Geological Survey map(s).                | -            | Ardmore, AL, TN  |
| Photographs                                   | -            | -  |
| Other   | -            | -  |

#### B. ADDITIONAL COMMENTS TO SUPPORT JD:

- <sup>1</sup>-Boxes checked below shall be supported by completing the appropriate sections in Section III below.
- <sup>2</sup>-For purposes of this form, an RPW is defined as a tributary that is not a TNW and that typically flows year-round or has continuous flow at least "seasonally" (e.g., typically 3 months).
- <sup>3</sup>-Supporting documentation is presented in Section III.F.
- <sup>4</sup>-Note that the Instructional Guidebook contains additional information regarding swales, ditches, washes, and erosional features generally and in the arid West.
- <sup>5</sup>-Flow route can be described by identifying, e.g., tributary a, which flows through the review area, to flow into tributary b, which then flows into TNW.
- <sup>6</sup>-A natural or man-made discontinuity in the OHWM does not necessarily sever jurisdiction (e.g., where the stream temporarily flows underground, or where the OHWM has been removed by development or agricultural practices). Where there is a break in the OHWM that is unrelated to the waterbody's flow regime (e.

- g., flow over a rock outcrop or through a culvert), the agencies will look for indicators of flow above and below the break.
- <sup>7</sup>-Ibid.
- 8-See Footnote #3.
- <sup>9</sup> -To complete the analysis refer to the key in Section III.D.6 of the Instructional Guidebook.
- <sup>10</sup>-Prior to asserting or declining CWA jurisdiction based solely on this category, Corps Districts will elevate the action to Corps and EPA HQ for review consistent with the process described in the Corps/EPA Memorandum Regarding CWA Act Jurisdiction Following Rapanos.

# APPROVED JURISDICTIONAL DETERMINATION FORM U.S. Army Corps of Engineers

This form should be completed by following the instructions provided in Section IV of the JD Form Instructional Guidebook.

| CTION I: BACKGROUND INFORMATION |
|---------------------------------|
|---------------------------------|

| A. | REPORT COMPLETION DATE FOR | APPROVED JURISDICTIONAL | DETERMINATION (JD) | : 10/02/2008 |
|----|----------------------------|-------------------------|--------------------|--------------|
|----|----------------------------|-------------------------|--------------------|--------------|

| л.  | REPORT COMPLETION DATE FOR ALL ROYED JURISDIC HONAL DETERMINATION (JD). 10/02/2000  |
|-----|---|
| В.  | DISTRICT OFFICE, FILE NAME, AND NUMBER: Nashville District; Grant Street Church of Christ; LRN-2008-01593   |
|     | PROJECT LOCATION AND BACKGROUND INFORMATION: Intersection of Cedar Lake Road SE & US Highway 31; btree Slough; Flint Creek Mile 3.0 Left Bank; Tennessee River Mile 308.4, Left Bank; Wheeler Lake; Morgan County, Alabama. State: Alabama County/parish/borough: Morgan City: Decatur Center coordinates of site (lat/long in degree decimal format): Lat. 34.5518506443406° N, Long86.972498577441° W. Universal Transverse Mercator: 16N  Name of nearest waterbody: Flint Creek  Name of nearest Traditional Navigable Water (TNW) into which the aquatic resource flows: Flint Creek (Wheeler Lake)  Name of watershed or Hydrologic Unit Code (HUC): 6030002  Check if map/diagram of review area and/or potential jurisdictional areas is/are available upon request.  Check if other sites (e.g., offsite mitigation sites, disposal sites, etc) are associated with this action and are recorded on a different JD form. |
| D.  | REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY):  ☐ Office (Desk) Determination. Date: 10/02/2008  ☐ Field Determination. Date(s): 09/25/2008   |
| SE  | CTION II: SUMMARY OF FINDINGS   |
| Α.  | RHA SECTION 10 DETERMINATION OF JURISDICTION.   |
|     | re Are no "navigable waters of the U.S." within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the ew area. [Required]  Waters subject to the ebb and flow of the tide.  Waters are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce. Explain:  |
| В.  | CWA SECTION 404 DETERMINATION OF JURISDICTION.  |
| The | re Are no "waters of the U.S." within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area. [Required  |
|     | 1. Waters of the U.S.  a. Indicate presence of waters of U.S. in review area (check all that apply):  TNWs, including territorial seas  Wetlands adjacent to TNWs Relatively permanent waters <sup>2</sup> (RPWs) that flow directly or indirectly into TNWs Non-RPWs that flow directly or indirectly into TNWs Wetlands directly abutting RPWs that flow directly or indirectly into TNWs Wetlands adjacent to but not directly abutting RPWs that flow directly or indirectly into TNWs Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs Impoundments of jurisdictional waters Isolated (interstate or intrastate) waters, including isolated wetlands   |
|     | b. Identify (estimate) size of waters of the U.S. in the review area:  Non-wetland waters: linear feet: width (ft) and/or acres.  Wetlands: acres.  |
|     | c. Limits (boundaries) of jurisdiction based on: Pick List Elevation of established OHWM (if known):  |
|     | <ul> <li>Non-regulated waters/wetlands (check if applicable):<sup>3</sup></li> <li>Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional.</li> </ul>   |

the 3 required criteria to be considered a wetland. The review area consists entirely of uplands.

Explain: Conducted a site visit on 09/25/2008, there were no streams on the property. The area reviewed did not meet

<sup>&</sup>lt;sup>1</sup> Boxes checked below shall be supported by completing the appropriate sections in Section III below.

<sup>&</sup>lt;sup>2</sup> For purposes of this form, an RPW is defined as a tributary that is not a TNW and that typically flows year-round or has continuous flow at least "seasonally" (e.g., typically 3 months).

Supporting documentation is presented in Section III.F.

#### **SECTION III: CWA ANALYSIS**

#### A. TNWs AND WETLANDS ADJACENT TO TNWs

The agencies will assert jurisdiction over TNWs and wetlands adjacent to TNWs. If the aquatic resource is a TNW, complete Section III.A.1 and Section III.D.1. only; if the aquatic resource is a wetland adjacent to a TNW, complete Sections III.A.1 and 2 and Section III.D.1.; otherwise, see Section III.B below.

| 1. | TNW Identify TNW:   |  |
|----|---|--|
|    | Summarize rationale supporting determination: .   |  |
| 2. | Wetland adjacent to TNW Summarize rationale supporting conclusion that wetland is "adjacent": |  |

#### B. CHARACTERISTICS OF TRIBUTARY (THAT IS NOT A TNW) AND ITS ADJACENT WETLANDS (IF ANY):

This section summarizes information regarding characteristics of the tributary and its adjacent wetlands, if any, and it helps determine whether or not the standards for jurisdiction established under *Rapanos* have been met.

The agencies will assert jurisdiction over non-navigable tributaries of TNWs where the tributaries are "relatively permanent waters" (RPWs), i.e. tributaries that typically flow year-round or have continuous flow at least seasonally (e.g., typically 3 months). A wetland that directly abuts an RPW is also jurisdictional. If the aquatic resource is not a TNW, but has year-round (perennial) flow, skip to Section III.D.2. If the aquatic resource is a wetland directly abutting a tributary with perennial flow, skip to Section III.D.4.

A wetland that is adjacent to but that does not directly abut an RPW requires a significant nexus evaluation. Corps districts and EPA regions will include in the record any available information that documents the existence of a significant nexus between a relatively permanent tributary that is not perennial (and its adjacent wetlands if any) and a traditional navigable water, even though a significant nexus finding is not required as a matter of law.

If the waterbody is not an RPW, or a wetland directly abutting an RPW, a JD will require additional data to determine if the waterbody has a significant nexus with a TNW. If the tributary has adjacent wetlands, the significant nexus evaluation must consider the tributary in combination with all of its adjacent wetlands. This significant nexus evaluation that combines, for analytical purposes, the tributary and all of its adjacent wetlands is used whether the review area identified in the JD request is the tributary, or its adjacent wetlands, or both. If the JD covers a tributary with adjacent wetlands, complete Section III.B.1 for the tributary, Section III.B.2 for any onsite wetlands, and Section III.B.3 for all wetlands adjacent to that tributary, both onsite and offsite. The determination whether a significant nexus exists is determined in Section III.C below.

#### 1. Characteristics of non-TNWs that flow directly or indirectly into TNW

(i) General Area Conditions:

#### Watershed size: Pick List Drainage area: Pick List Average annual rainfall: inches Average annual snowfall: inches (ii) Physical Characteristics: (a) Relationship with TNW: ☐ Tributary flows directly into TNW. Tributary flows through **Pick List** tributaries before entering TNW. Project waters are **Pick List** river miles from TNW. Project waters are **Pick List** river miles from RPW. Project waters are **Pick List** aerial (straight) miles from TNW. Project waters are **Pick List** aerial (straight) miles from RPW. Project waters cross or serve as state boundaries. Explain: Identify flow route to TNW<sup>5</sup>: Tributary stream order, if known:

<sup>&</sup>lt;sup>4</sup> Note that the Instructional Guidebook contains additional information regarding swales, ditches, washes, and erosional features generally and in the arid West.

<sup>&</sup>lt;sup>5</sup> Flow route can be described by identifying, e.g., tributary a, which flows through the review area, to flow into tributary b, which then flows into TNW.

| (b)        | General Tributary Characteristics (check all that apply):   |
|------------|---|
|            | Tributary is: Natural   |
|            | Artificial (man-made). Explain:   |
|            | Manipulated (man-altered). Explain:   |
|            |   |
|            | <b>Tributary</b> properties with respect to top of bank (estimate):   |
|            | Average width: feet   |
|            | Average depth: feet   |
|            | Average side slopes: Pick List.   |
|            |   |
|            | Primary tributary substrate composition (check all that apply):   |
|            | ☐ Silts ☐ Sands ☐ Concrete  |
|            | ☐ Cobbles ☐ Gravel ☐ Muck   |
|            | ☐ Bedrock ☐ Vegetation. Type/% cover:   |
|            | Other. Explain: .   |
|            |   |
|            | Tributary condition/stability [e.g., highly eroding, sloughing banks]. Explain:   |
|            | Presence of run/riffle/pool complexes. Explain: .   |
|            | Tributary geometry: Pick List   |
|            | Tributary gradient (approximate average slope): %   |
|            |   |
| (c)        | Flow:   |
|            | Tributary provides for: Pick List   |
|            | Estimate average number of flow events in review area/year: Pick List   |
|            | Describe flow regime:   |
|            | Other information on duration and volume: .   |
|            | Surface flow is: Pick List. Characteristics: .  |
|            | Surface now is. Tex List. Characteristics.  |
|            | Subsurface flow: Pick List. Explain findings: .   |
|            | Dye (or other) test performed:  |
|            |   |
|            | Tributary has (check all that apply):   |
|            | ☐ Bed and banks   |
|            | OHWM <sup>6</sup> (check all indicators that apply):  |
|            | clear, natural line impressed on the bank the presence of litter and debris   |
|            | changes in the character of soil destruction of terrestrial vegetation  |
|            | shelving the presence of wrack line   |
|            | vegetation matted down, bent, or absent sediment sorting  |
|            | leaf litter disturbed or washed away  |
|            | sediment deposition multiple observed or predicted flow events  |
|            | water staining abrupt change in plant community   |
|            | other (list):   |
|            | Discontinuous OHWM. Explain:  |
|            | ·   |
|            | If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction (check all that apply):                |
|            | High Tide Line indicated by: Mean High Water Mark indicated by:   |
|            | oil or scum line along shore objects survey to available datum;   |
|            | ☐ fine shell or debris deposits (foreshore) ☐ physical markings;  |
|            | physical markings/characteristics vegetation lines/changes in vegetation types.   |
|            | tidal gauges  |
|            | other (list):   |
| <b>~</b> - |   |
|            | mical Characteristics:  |
| Chai       | racterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.) |
| Ida.       | Explain:  tify appaific pollytents if known:  |
| iuen       | tify specific pollutants, if known:   |
|            |   |

(iii)

<sup>&</sup>lt;sup>6</sup>A natural or man-made discontinuity in the OHWM does not necessarily sever jurisdiction (e.g., where the stream temporarily flows underground, or where the OHWM has been removed by development or agricultural practices). Where there is a break in the OHWM that is unrelated to the waterbody's flow regime (e.g., flow over a rock outcrop or through a culvert), the agencies will look for indicators of flow above and below the break.

<sup>7</sup>Ibid.

|    | (iv)  | Biological Characteristics. Channel supports (check all that apply):  Riparian corridor. Characteristics (type, average width):  Wetland fringe. Characteristics:  Habitat for:  Federally Listed species. Explain findings:  Fish/spawn areas. Explain findings:  Other environmentally-sensitive species. Explain findings:  Aquatic/wildlife diversity. Explain findings:      |
|----|-------|---|
| 2. | Cha   | racteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW  |
|    | (i)   | Physical Characteristics:  (a) General Wetland Characteristics: Properties: Wetland size: acres Wetland type. Explain: Wetland quality. Explain: Project wetlands cross or serve as state boundaries. Explain:  |
|    |       | (b) <u>General Flow Relationship with Non-TNW</u> : Flow is: <b>Pick List</b> . Explain:  |
|    |       | Surface flow is: Pick List Characteristics:   |
|    |       | Subsurface flow: Pick List. Explain findings:  Dye (or other) test performed:   |
|    |       | (c) Wetland Adjacency Determination with Non-TNW:  Directly abutting  Not directly abutting  Discrete wetland hydrologic connection. Explain:  Ecological connection. Explain:  Separated by berm/barrier. Explain:   |
|    |       | (d) Proximity (Relationship) to TNW Project wetlands are Pick List river miles from TNW. Project waters are Pick List aerial (straight) miles from TNW. Flow is from: Pick List. Estimate approximate location of wetland as within the Pick List floodplain.   |
|    | (ii)  | Chemical Characteristics: Characterize wetland system (e.g., water color is clear, brown, oil film on surface; water quality; general watershed characteristics; etc.). Explain: Identify specific pollutants, if known:  |
|    | (iii) | Biological Characteristics. Wetland supports (check all that apply):  Riparian buffer. Characteristics (type, average width):  Vegetation type/percent cover. Explain:  Habitat for:  Federally Listed species. Explain findings:  Fish/spawn areas. Explain findings:  Other environmentally-sensitive species. Explain findings:  Aquatic/wildlife diversity. Explain findings: |
| 3. | Cha   | All wetlands adjacent to the tributary (if any) All wetland(s) being considered in the cumulative analysis: Pick List Approximately ( ) acres in total are being considered in the cumulative analysis.   |

For each wetland, specify the following:

Directly abuts? (Y/N) Size (in acres) Directly abuts? (Y/N) Size (in acres)

Summarize overall biological, chemical and physical functions being performed:

#### C. SIGNIFICANT NEXUS DETERMINATION

A significant nexus analysis will assess the flow characteristics and functions of the tributary itself and the functions performed by any wetlands adjacent to the tributary to determine if they significantly affect the chemical, physical, and biological integrity of a TNW. For each of the following situations, a significant nexus exists if the tributary, in combination with all of its adjacent wetlands, has more than a speculative or insubstantial effect on the chemical, physical and/or biological integrity of a TNW. Considerations when evaluating significant nexus include, but are not limited to the volume, duration, and frequency of the flow of water in the tributary and its proximity to a TNW, and the functions performed by the tributary and all its adjacent wetlands. It is not appropriate to determine significant nexus based solely on any specific threshold of distance (e.g. between a tributary and its adjacent wetland or between a tributary and the TNW). Similarly, the fact an adjacent wetland lies within or outside of a floodplain is not solely determinative of significant nexus.

Draw connections between the features documented and the effects on the TNW, as identified in the *Rapanos* Guidance and discussed in the Instructional Guidebook. Factors to consider include, for example:

- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to carry pollutants or flood waters to TNWs, or to reduce the amount of pollutants or flood waters reaching a TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), provide habitat and lifecycle support functions for fish and other species, such as feeding, nesting, spawning, or rearing young for species that are present in the TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to transfer nutrients and organic carbon that support downstream foodwebs?
- Does the tributary, in combination with its adjacent wetlands (if any), have other relationships to the physical, chemical, or biological integrity of the TNW?

Note: the above list of considerations is not inclusive and other functions observed or known to occur should be documented below:

- 1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNWs. Explain findings of presence or absence of significant nexus below, based on the tributary itself, then go to Section III.D:
- 2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNWs. Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D:
- 3. Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D:

| D. | DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE (CHECK ALL |
|----|---|
|    | THAT APPLY):  |

| 1. | TNWs and Adjacent Wetlands. Check all that apply and provide size estimates in review area:  TNWs: linear feet width (ft), Or, acres.  Wetlands adjacent to TNWs: acres.  |
|----|---|
| 2. | RPWs that flow directly or indirectly into TNWs.  ☐ Tributaries of TNWs where tributaries typically flow year-round are jurisdictional. Provide data and rationale indicating that tributary is perennial:  ☐ Tributaries of TNW where tributaries have continuous flow "seasonally" (e.g., typically three months each year) are jurisdictional. Data supporting this conclusion is provided at Section III.B. Provide rationale indicating that tributary flows seasonally: |

|     | Provide estimates for jurisdictional waters in the review area (check all that apply):  Tributary waters: linear feet width (ft).  Other non-wetland waters: acres.  Identify type(s) of waters: .  |
|-----|---|
| 3.  | Non-RPWs <sup>8</sup> that flow directly or indirectly into TNWs.  Waterbody that is not a TNW or an RPW, but flows directly or indirectly into a TNW, and it has a significant nexus with a TNW is jurisdictional. Data supporting this conclusion is provided at Section III.C.   |
|     | Provide estimates for jurisdictional waters within the review area (check all that apply):  Tributary waters: linear feet width (ft).  Other non-wetland waters: acres.  Identify type(s) of waters: .  |
| 4.  | Wetlands directly abutting an RPW that flow directly or indirectly into TNWs.  Wetlands directly abut RPW and thus are jurisdictional as adjacent wetlands.  Wetlands directly abutting an RPW where tributaries typically flow year-round. Provide data and rationale indicating that tributary is perennial in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW:  Wetlands directly abutting an RPW where tributaries typically flow "seasonally." Provide data indicating that tributary is seasonal in Section III.B and rationale in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW: |
|     | Provide acreage estimates for jurisdictional wetlands in the review area: acres.  |
| 5.  | Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs.  Wetlands that do not directly abut an RPW, but when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisidictional. Data supporting this conclusion is provided at Section III.C.  |
|     | Provide acreage estimates for jurisdictional wetlands in the review area: acres.  |
| 6.  | Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.  Wetlands adjacent to such waters, and have when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisdictional. Data supporting this conclusion is provided at Section III.C.   |
|     | Provide estimates for jurisdictional wetlands in the review area: acres.  |
| 7.  | As a general rule, the impoundment of a jurisdictional tributary remains jurisdictional.  Demonstrate that impoundment was created from "waters of the U.S.," or  Demonstrate that water meets the criteria for one of the categories presented above (1-6), or  Demonstrate that water is isolated with a nexus to commerce (see E below).   |
| SUC | OLATED [INTERSTATE OR INTRA-STATE] WATERS, INCLUDING ISOLATED WETLANDS, THE USE, GRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING ANY CH WATERS (CHECK ALL THAT APPLY): 10 which are or could be used by interstate or foreign travelers for recreational or other purposes. from which fish or shellfish are or could be taken and sold in interstate or foreign commerce. which are or could be used for industrial purposes by industries in interstate commerce. Interstate isolated waters. Explain:  Other factors. Explain:   |
| Ide | ntify water body and summarize rationale supporting determination:  |

E.

 <sup>&</sup>lt;sup>8</sup>See Footnote # 3.
 <sup>9</sup> To complete the analysis refer to the key in Section III.D.6 of the Instructional Guidebook.
 <sup>10</sup> Prior to asserting or declining CWA jurisdiction based solely on this category, Corps Districts will elevate the action to Corps and EPA HQ for review consistent with the process described in the Corps/EPA Memorandum Regarding CWA Act Jurisdiction Following Rapanos.

|    | Provide estimates for jurisdictional waters in the review area (check all that apply):  Tributary waters: linear feet width (ft).  Other non-wetland waters: acres.  Identify type(s) of waters:  Wetlands: acres.   |
|----|--|
| F. | NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS (CHECK ALL THAT APPLY):  If potential wetlands were assessed within the review area, these areas did not meet the criteria in the 1987 Corps of Engineers Wetland Delineation Manual and/or appropriate Regional Supplements.  Review area included isolated waters with no substantial nexus to interstate (or foreign) commerce.  Prior to the Jan 2001 Supreme Court decision in "SWANCC," the review area would have been regulated based solely on the "Migratory Bird Rule" (MBR).  Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction. Explain:  Other: (explain, if not covered above): Conducted a site visit on 09/25/2008, there were no streams on the property. The area lewed did not meet the 3 required criteria to be considered a wetland. The review area consists entirely of uplands. |
|    | Provide acreage estimates for non-jurisdictional waters in the review area, where the <u>sole</u> potential basis of jurisdiction is the MBR factors (i.e., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional judgment (check all that apply):  Non-wetland waters (i.e., rivers, streams): linear feet width (ft).  Lakes/ponds: acres.  Other non-wetland waters: acres. List type of aquatic resource: .  Wetlands: acres.  |
|    | Provide acreage estimates for non-jurisdictional waters in the review area that do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction (check all that apply):  Non-wetland waters (i.e., rivers, streams): linear feet, width (ft).  Lakes/ponds: acres.  Other non-wetland waters: acres. List type of aquatic resource:  Wetlands: acres.  |
|    | SUPPORTING DATA. Data reviewed for JD (check all that apply - checked items shall be included in case file and, where checked and requested, appropriately reference sources below):  Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant:  Data sheets prepared/submitted by or on behalf of the applicant/consultant.  Office concurs with data sheets/delineation report.  Office does not concur with data sheets/delineation report.   |
|    | <ul> <li>□ Data sheets prepared by the Corps:</li> <li>□ Corps navigable waters' study:Navigable water as listed in Nashville District Public Notice #86-23, dated 8 May 1986.</li> <li>□ U.S. Geological Survey Hydrologic Atlas:</li> <li>□ USGS NHD data.</li> <li>□ USGS 8 and 12 digit HUC maps.</li> </ul>   |
|    | <ul> <li>U.S. Geological Survey map(s). Cite scale &amp; quad name: 1:24000; Decatur, AL Quad.</li> <li>USDA Natural Resources Conservation Service Soil Survey. Citation: Morgan County, MS; NRCS Web Soil Survey URL: http://websoilsurvey.nrcs.usda.gov.</li> <li>National wetlands inventory map(s). Cite name: State/Local wetland inventory map(s):</li> <li>FEMA/FIRM maps: Morgan County, Alabama and Incorporated Areas; Map Number 01103C0090 D.</li> <li>100-year Floodplain Elevation is: (National Geodectic Vertical Datum of 1929)</li> <li>Photographs: ☐ Aerial (Name &amp; Date): or ☐ Other (Name &amp; Date): Digital photos taken during site visit on 09/25/2008.</li> <li>Previous determination(s). File no. and date of response letter:</li> </ul>   |
|    | Applicable/supporting case law:  Applicable/supporting scientific literature: 1987 Corps of Engineers Wetlands Delineation Manual; Tennessee Valley Authority, Hydraulic Data Branch, Drainage Areas for Streams in Tennessee River Basin, March 1970, Report No. 0-5829-R-2; NC Division of Water Quality. 2005. Identification Methods for the Origins of Intermittent and Perennial Streams, Version 3.1. North Carolina Department of Environment and Natural Resources, Division of Water Quality. Raleigh, NC. Effective Date: February 28, 2005; The Role of Headwater Streams in Downstream Water Quality, Journal of the American Water Resources Association (JAWRA), February 2007, Volume 43, No. 1, Pages 41-59.  |

|  | Other information ( | please specify): |  |
|--|---------------------|------------------|--|
|--|---------------------|------------------|--|

**B. ADDITIONAL COMMENTS TO SUPPORT JD:** POC Gary Davis, Decatur AL Field Office, 256-350-5620.

## APPROVED JURISDICTIONAL DETERMINATION FORM U.S. Army Corps of Engineers

## **SECTION I: BACKGROUND INFORMATION**

| A. REPORT COMPLETION DATE FOR APPROVED JUR | ISDICTIONAL DETERMINATION ( | JD | ): 02 | 2-Oct-2008 |
|--|-----------------------------|----|-------|------------|
|--|-----------------------------|----|-------|------------|

B. DISTRICT OFFICE, FILE NAME, AND NUMBER: Nashville District, LRN-2008-01378-JD1

#### C. PROJECT LOCATION AND BACKGROUND INFORMATION:

State : AL - Alabama
County/parish/borough: Madison
City: Huntsville

Lat: Long:

Universal Transverse Mercator: []

Name of nearest waterbody: Chase Creek
Name of nearest Traditional Navigable Water (TNW): Flint River
Name of watershed or Hydrologic Unit Code (HUC): 6030002

Check if map/diagram of review area and/or potential jurisdictional areas is/are available upon request.

Check if other sites (e.g., offsite mitigation sites, disposal sites, etc.) are associated with the action and are recorded on a different JD form.

#### D. REVIEW PERFORMED FOR SITE EVALUATION:

Office Determination Date: 02-Oct-2008

16-Sep-2008

Field Determination Date

(s):

## **SECTION II: SUMMARY OF FINDINGS**

| Δ  | BHA  | SECTION | 1 10 DE | TERN  | ЛІКІДТІС     | ON OF  | JURISDIC | NOIT:     |
|----|------|---------|---------|-------|--------------|--------|----------|-----------|
| М. | NIIA | SECTION |         | _   L | VI I A VIIIV | JIN OF | JUNISDIK | 2 I IVJIN |

There [] "navigable waters of the U.S." within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the review area.

Waters subject to the ebb and flow of the tide.

Waters are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce.

Explain:

#### B. CWA SECTION 404 DETERMINATION OF JURISDICTION.

There [] "waters of the U.S." within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area.

#### 1. Waters of the U.S.

## a. Indicate presence of waters of U.S. in review area:1

| Water Name                              | Water Type(s) Present  |  |  |  |  |  |
|---|--|--|--|--|--|--|
|   |  |  |  |  |  |  |
|   |  |  |  |  |  |  |
| UT of Chase Creek                       | Relatively Permanent Waters (RPWs) that flow directly or indirectly into TNWs  |  |  |  |  |  |
| • · • · • · · · · · · · · · · · · · · · | resources, restricted (i.e. 110) and the mean of the man of the second contract of the seco |  |  |  |  |  |

## b. Identify (estimate) size of waters of the U.S. in the review area:

Area: (m²) Linear: (m)

## c. Limits (boundaries) of jurisdiction:

based on: []

OHWM Elevation: (if known)

## 2. Non-regulated waters/wetlands:3

Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional. Explain:

## **SECTION III: CWA ANALYSIS**

## A. TNWs AND WETLANDS ADJACENT TO TNWs

#### 1.TNW

Not Applicable.

## 2. Wetland Adjacent to TNW

## B. CHARACTERISTICS OF TRIBUTARY (THAT IS NOT A TNW) AND ITS ADJACENT WETLANDS (IF ANY):

## 1. Characteristics of non-TNWs that flow directly or indirectly into TNW

## (i) General Area Conditions:

Watershed size: 13 square

miles

Drainage area: 260 acres Average annual rainfall: 54 inches Average annual snowfall: 3 inches

#### (ii) Physical Characteristics

## (a) Relationship with TNW:

Tributary flows directly into TNW.

Tributary flows through [] tributaries before entering TNW.

:Number of tributaries

Project waters are 1-2 river miles from TNW.

Project waters are 1 (or less) river miles from RPW.

Project Waters are 1-2 aerial (straight) miles from TNW.

Project waters are 1 (or less) aerial(straight) miles from RPW.

Project waters cross or serve as state boundaries.

Explain:

Identify flow route to TNW:5

UT, UT, Chase Creek, then Flint River(TNW)

## **Tributary Stream Order, if known:**

|   | Order | Tributary Name    |
|---|-------|-------------------|
| [ | 1     | UT of Chase Creek |

## (b) General Tributary Characteristics:

## Tributary is:

| Tributary Name    | Natural | Artificial | Explain | Manipulated | Explain |
|-------------------|---------|------------|---------|-------------|---------|
| UT of Chase Creek | X       | -          | -       | -           | -       |

## Tributary properties with respect to top of bank (estimate):

| Tributary Name    | Width (ft) | Depth (ft) | Side Slopes |
|-------------------|------------|------------|-------------|
| UT of Chase Creek | 8          |            | 3:1         |

## Primary tributary substrate composition:

| Tributary Name    | Silt | Sands | Concrete | Cobble | Gravel | Muck | Bedrock | Vegetation | Other |
|-------------------|------|-------|----------|--------|--------|------|---------|------------|-------|
| UT of Chase Creek | Χ    | -     | -        | -      | Х      | -    | -       | -          | -     |

## Tributary (conditions, stability, presence, geometry, gradient):

| Tributary Name    | Condition\Stability | Run\Riffle\Pool Complexes | Geometry            | Gradient (%) |
|-------------------|---------------------|---------------------------|---------------------|--------------|
| UT of Chase Creek | mostly stable       | no                        | Relatively straight | 1            |

## (c) Flow:

|    | Tributary Name   | Provides for  | Events Per Year | Flow Regime                            | Duration & Volume |
|----|------------------|---------------|-----------------|--|-------------------|
| U. | T of Chase Creek | Seasonal flow | 20 (or greater) | wet months following rains year round. | -                 |

## **Surface Flow is:**

| Tributary Name    | Surface Flow | Characteristics |
|-------------------|--------------|-----------------|
| UT of Chase Creek | Confined     | -               |

## **Subsurface Flow:**

| Tributary Name    | Subsurface Flow | Explain Findings | Dye (or other) Test |
|-------------------|-----------------|------------------|---------------------|
| UT of Chase Creek | Unknown         | -                | -                   |

## **Tributary has:**

| Tributary Name    | Bed & Banks | OHWM | Discontinuous<br>OHWM <sup>7</sup> | Explain |
|-------------------|-------------|------|------------------------------------|---------|
| UT of Chase Creek | Χ           | X    | -                                  | -       |

## Tributaries with OHWM<sup>6</sup> - (as indicated above)

| Tributary Name       | OHWM | Clear | Litter | Changes in Soil | Destruction<br>Vegetation | Shelving | Wrack Line | Matted\Absent<br>Vegetation | Sediment<br>Sorting | Leaf Litter | Scour | Sediment<br>Deposition | Flow Events | Water<br>Staining | Changes<br>Plant | Other |
|----------------------|------|-------|--------|-----------------|---------------------------|----------|------------|-----------------------------|---------------------|-------------|-------|------------------------|-------------|-------------------|------------------|-------|
| UT of Chase<br>Creek | Х    | Х     | -      | -               | -                         | -        | -          | Х                           | Х                   | Х           | Х     | Х                      | Х           | -                 | -                | -     |

## If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction:

## **High Tide Line indicated by:**

Not Applicable.

## Mean High Water Mark indicated by:

## (iii) Chemical Characteristics:

Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.).

| Tributary Name    | Explain   | Identify specific pollutants, if known |
|-------------------|---|--|
| UT of Chase Creek | water was clear but not standing. Watershed is agricultural and |  |
| OT OF Chase Creek | developing residential.   |  |

## (iv) Biological Characteristics. Channel supports:

| Tributary Name      | Binarian Carridar | Characteristics | Wetland Fringe | Characteristics | Habitat |
|---------------------|-------------------|-----------------|----------------|-----------------|---------|
| Tributary Name      | Riparian Corridor | Gnaracteristics | wettand Fringe | Characteristics | парна   |
|                     |                   |                 |                |                 |         |
| UT of Chase Creek   | Y                 | narrow wooded   | _              | _               | _       |
| O I OI OIIA36 OI66K |                   | nanow wooded    | _              |                 | _       |

## 2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW

- (i) Physical Characteristics:
- (a) General Wetland Characteristics:

**Properties:** 

Not Applicable.

## (b) General Flow Relationship with Non-TNW:

Flow is:

Not Applicable.

#### Surface flow is:

Not Applicable.

#### Subsurface flow:

Not Applicable.

## (c) Wetland Adjacency Determination with Non-TNW:

Not Applicable.

## (d) Proximity (Relationship) to TNW:

Not Applicable.

## (ii) Chemical Characteristics:

Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.).

Not Applicable.

## (iii) Biological Characteristics. Wetland supports:

3. Characteristics of all wetlands adjacent to the tributary (if any):

All wetlands being considered in the cumulative analysis:

Not Applicable.

Summarize overall biological, chemical and physical functions being performed:

Not Applicable.

#### C. SIGNIFICANT NEXUS DETERMINATION

A significant nexus analysis will assess the flow characteristics and functions of the tributary itself and the functions performed by any wetlands adjacent to the tributary to determine if they significantly affect the chemical, physical, and biological integrity of a TNW. For each of the following situations, a significant nexus exists if the tributary, in combination with all of its adjacent wetlands, has more than a speculative or insubstantial effect on the chemical, physical and/or biological integrity of a TNW. Considerations when evaluating significant nexus include, but are not limited to the volume, duration, and frequency of the flow of water in the tributary and its proximity to a TNW, and the functions performed by the tributary and all its adjacent wetlands. It is not appropriate to determine significant nexus based solely on any specific threshold of distance (e.g. between a tributary and its adjacent wetland or between a tributary and the TNW). Similarly, the fact an adjacent wetland lies within or outside of a floodplain is not solely determinative of significant nexus.

Findings for: UT of Chase Creek

Stream has seasonal flow in well defined channel and close to TNW.

## D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE:

## 1. TNWs and Adjacent Wetlands:

Not Applicable.

## 2. RPWs that flow directly or indirectly into TNWs:

| zi iti iio maciion a | noony or mai | rootly into rittroi   |
|----------------------|--------------|---|
| Wetland Name         | Flow         | Explain   |
|                      |              |   |
| UT of Chase Creek    | SEASONAL     | no flow on site visit but channel morphology such as absence of vegetation in |
| OT OF Chase Creek    | SEASONAL     | channel speaks to regular flows.  |

## Provide estimates for jurisdictional waters in the review area:

| Wetland Name | Туре  | Size (Linear) (m) | Size (Area) (m²) |
|--------------|---|-------------------|------------------|
|              | Relatively Permanent Waters (RPWs) that flow directly or indirectly into TNWs | 76.2              | -                |
| Total:       |   | 76.2              | 0                |

## 3. Non-RPWs that flow directly or indirectly into TNWs:8 Not Applicable.

#### Provide estimates for jurisdictional waters in the review area:

Not Applicable.

## 4. Wetlands directly abutting an RPW that flow directly or indirectly into TNWs.

Not Applicable.

## Provide acreage estimates for jurisdictional wetlands in the review area:

Not Applicable.

## 5. Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs:

Not Applicable.

#### Provide acreage estimates for jurisdictional wetlands in the review area:

Not Applicable.

#### 6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs:

Not Applicable.

#### Provide estimates for jurisdictional wetlands in the review area:

Not Applicable.

## 7. Impoundments of jurisdictional waters:9

Not Applicable.

## E. ISOLATED [INTERSTATE OR INTRA-STATE] WATERS INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE

COMMERCE, INCLUDING ANY SUCH WATERS:10

Not Applicable.

## Identify water body and summarize rationale supporting determination:

Not Applicable.

## Provide estimates for jurisdictional waters in the review area:

#### F. NON-JURISDICTIONAL WATERS. INCLUDING WETLANDS

If potential wetlands were assessed within the review area, these areas did not meet the criteria in the 1987 Corps of Engineers Wetland Delineation Manual and/or appropriate Regional Supplements:

Review area included isolated waters with no substantial nexus to interstate (or foreign) commerce:

Prior to the Jan 2001 Supreme Court decision in "SWANCC," the review area would have been regulated based soley on the "Migratory Bird Rule" (MBR):

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction (Explain):

Other (Explain):

Provide acreage estimates for non-jurisdictional waters in the review area, where the sole potential basis of jurisdiction is the MBR factors (ie., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional judgment:

Not Applicable.

Provide acreage estimates for non-jurisdictional waters in the review area, that do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction.

Not Applicable.

## **SECTION IV: DATA SOURCES.**

#### A. SUPPORTING DATA. Data reviewed for JD

(listed items shall be included in case file and, where checked and requested, appropriately reference below):

| Data Reviewed                                 | Source Label | Source Description  |
|---|--------------|---|
| Maps, plans, plots or plat submitted by or on |              |   |
| behalf of the applicant/consultant            | [            | -   |
| Corps navigable waters study                  | -            | Nashville District Public Notice #86-23, dated 8 May 1986 |
| U.S. Geological Survey map(s).                | -            | 1:24,000, Meridianville, AL                               |
| Photographs                                   | -            | -   |
| Other   | -            | -   |

#### **B. ADDITIONAL COMMENTS TO SUPPORT JD:**

- 1-Boxes checked below shall be supported by completing the appropriate sections in Section III below.
- <sup>2</sup>-For purposes of this form, an RPW is defined as a tributary that is not a TNW and that typically flows year-round or has continuous flow at least "seasonally" (e.g., typically 3 months).
- <sup>3</sup>-Supporting documentation is presented in Section III.F.
- <sup>4</sup>-Note that the Instructional Guidebook contains additional information regarding swales, ditches, washes, and erosional features generally and in the arid West.
- <sup>5</sup>-Flow route can be described by identifying, e.g., tributary a, which flows through the review area, to flow into tributary b, which then flows into TNW.
- <sup>6</sup>-A natural or man-made discontinuity in the OHWM does not necessarily sever jurisdiction (e.g., where the stream temporarily flows underground, or where the OHWM has been removed by development or agricultural practices). Where there is a break in the OHWM that is unrelated to the waterbody's flow regime (e.g., flow over a rock outcrop or through a culvert), the agencies will look for indicators of flow above and below the break.
- <sup>7</sup>-Ibid.
- 8-See Footnote #3.
- <sup>9</sup> -To complete the analysis refer to the key in Section III.D.6 of the Instructional Guidebook.
- <sup>10</sup>-Prior to asserting or declining CWA jurisdiction based solely on this category, Corps Districts will elevate the action to Corps and EPA HQ for review consistent with the process described in the Corps/EPA Memorandum Regarding CWA Act Jurisdiction Following Rapanos.

## APPROVED JURISDICTIONAL DETERMINATION FORM U.S. Army Corps of Engineers

#### **SECTION I: BACKGROUND INFORMATION**

#### A. REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (JD): 01-Oct-2008

B. DISTRICT OFFICE, FILE NAME, AND NUMBER: Nashville District, LRN-2008-01625-JD1

## C. PROJECT LOCATION AND BACKGROUND INFORMATION:

State:

TN Tennessee

County/parish/borough:

City:

Lat:

Spring City

Lat:

35.72574

Long:

-84.88837

Universal Transverse Mercator: []

Name of nearest waterbody: Piney River
Name of nearest Traditional Navigable Water (TNW): Piney River
Name of watershed or Hydrologic Unit Code (HUC): 06010201

Check if map/diagram of review area and/or potential jurisdictional areas is/are available upon request.

Check if other sites (e.g., offsite mitigation sites, disposal sites, etc.) are associated with the action and are recorded on a different JD form.

#### D. REVIEW PERFORMED FOR SITE EVALUATION:

01-Oct-2008

Office Determination Date:

Field Determination Date (s):

SECTION II: SUMMARY OF FINDINGS

#### A. RHA SECTION 10 DETERMINATION OF JURISDICTION

There [] "navigable waters of the U.S." within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the review area.

Waters subject to the ebb and flow of the tide.

Waters are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce.

Explain:

#### **B. CWA SECTION 404 DETERMINATION OF JURISDICTION.**

There [] "waters of the U.S." within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area.

#### 1. Waters of the U.S.

#### a. Indicate presence of waters of U.S. in review area:1

| Water Name                       | Water Type(s) Present |
|----------------------------------|-----------------------|
| LRN-2008-01625; Cumberland Trail | Uplands               |

| <li>b. Identify (estimate) size of waters of the U.S. in the review area</li> |
|---|
|---|

Area: (m²) Linear: (m)

## c. Limits (boundaries) of jurisdiction:

based on: []

OHWM Elevation: (if known)

#### 2. Non-regulated waters/wetlands:3

Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional. Explain: Project occurs entirely on uplands, activity does not require permit review

#### **SECTION III: CWA ANALYSIS**

#### A. TNWs AND WETLANDS ADJACENT TO TNWs

#### **1.TNW**

Not Applicable.

#### 2. Wetland Adjacent to TNW

Not Applicable.

## B. CHARACTERISTICS OF TRIBUTARY (THAT IS NOT A TNW) AND ITS ADJACENT WETLANDS (IF ANY):

#### 1. Characteristics of non-TNWs that flow directly or indirectly into TNW

#### (i) General Area Conditions:

Watershed size: []
Drainage area: []
Average annual rainfall: inches
Average annual snowfall: inches

#### (ii) Physical Characteristics

#### (a) Relationship with TNW:

Tributary flows directly into TNW.

Tributary flows through [ ] tributaries before entering TNW.

:Number of tributaries

Project waters are [] river miles from TNW.

Project waters are [] river miles from RPW.

Project Waters are [ ] aerial (straight) miles from TNW.

Project waters are [] aerial(straight) miles from RPW.

Project waters cross or serve as state boundaries.

Explain:

Identify flow route to TNW:5

### **Tributary Stream Order, if known:**

## (b) General Tributary Characteristics: Tributary is: Not Applicable. Tributary properties with respect to top of bank (estimate): Not Applicable. Primary tributary substrate composition: Not Applicable. Tributary (conditions, stability, presence, geometry, gradient): Not Applicable. (c) Flow: Not Applicable. **Surface Flow is:** Not Applicable. **Subsurface Flow:** Not Applicable. **Tributary has:** Not Applicable. If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction: **High Tide Line indicated by:** Not Applicable. Mean High Water Mark indicated by: Not Applicable. (iii) Chemical Characteristics: Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.). Not Applicable. (iv) Biological Characteristics. Channel supports: Not Applicable. 2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW (i) Physical Characteristics: (a) General Wetland Characteristics: **Properties:** Not Applicable. (b) General Flow Relationship with Non-TNW: Flow is: Not Applicable. Surface flow is: Not Applicable. Subsurface flow: Not Applicable.

Not Applicable.

(d) Proximity (Relationship) to TNW:

Not Applicable.

(c) Wetland Adjacency Determination with Non-TNW:

#### (ii) Chemical Characteristics:

Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.).

Not Applicable.

#### (iii) Biological Characteristics. Wetland supports:

Not Applicable.

#### 3. Characteristics of all wetlands adjacent to the tributary (if any):

All wetlands being considered in the cumulative analysis:

Not Applicable.

Summarize overall biological, chemical and physical functions being performed:

Not Applicable.

#### C. SIGNIFICANT NEXUS DETERMINATION

A significant nexus analysis will assess the flow characteristics and functions of the tributary itself and the functions performed by any wetlands adjacent to the tributary to determine if they significantly affect the chemical, physical, and biological integrity of a TNW. For each of the following situations, a significant nexus exists if the tributary, in combination with all of its adjacent wetlands, has more than a speculative or insubstantial effect on the chemical, physical and/or biological integrity of a TNW. Considerations when evaluating significant nexus include, but are not limited to the volume, duration, and frequency of the flow of water in the tributary and its proximity to a TNW, and the functions performed by the tributary and all its adjacent wetlands. It is not appropriate to determine significant nexus based solely on any specific threshold of distance (e.g. between a tributary and its adjacent wetland or between a tributary and the TNW). Similarly, the fact an adjacent wetland lies within or outside of a floodplain is not solely determinative of significant nexus.

Significant Nexus: Not Applicable

## D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE:

#### 1. TNWs and Adjacent Wetlands:

Not Applicable.

## 2. RPWs that flow directly or indirectly into TNWs:

Not Applicable.

Provide estimates for jurisdictional waters in the review area:

Not Applicable.

#### 3. Non-RPWs that flow directly or indirectly into TNWs:8

Not Applicable.

Provide estimates for jurisdictional waters in the review area:

Not Applicable.

#### 4. Wetlands directly abutting an RPW that flow directly or indirectly into TNWs.

Not Applicable.

Provide acreage estimates for jurisdictional wetlands in the review area:

Not Applicable.

## 5. Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs:

Not Applicable.

#### Provide acreage estimates for jurisdictional wetlands in the review area:

## 6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs:

Not Applicable.

#### Provide estimates for jurisdictional wetlands in the review area:

Not Applicable.

#### 7. Impoundments of jurisdictional waters:9

Not Applicable.

# E. ISOLATED [INTERSTATE OR INTRA-STATE] WATERS INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE. INCLUDING ANY SUCH WATERS:<sup>10</sup>

Not Applicable.

#### Identify water body and summarize rationale supporting determination:

Not Applicable.

#### Provide estimates for jurisdictional waters in the review area:

Not Applicable.

## F. NON-JURISDICTIONAL WATERS. INCLUDING WETLANDS

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Provide acreage estimates for non-jurisdictional waters in the review area, where the sole potential basis of jurisdiction is the MBR factors (ie., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional judgment:

Not Applicable.

Provide acreage estimates for non-jurisdictional waters in the review area, that do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction.

Not Applicable.

#### **SECTION IV: DATA SOURCES.**

#### A. SUPPORTING DATA. Data reviewed for JD

(listed items shall be included in case file and, where checked and requested, appropriately reference below): Not Applicable.

#### **B. ADDITIONAL COMMENTS TO SUPPORT JD:**

- <sup>1</sup>-Boxes checked below shall be supported by completing the appropriate sections in Section III below.
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